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JAPANESE PATENT OFFICE

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(71)Applicant:

NIPPON TELEGR & TELEPH
CORP <NTT>

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(72)Inventor:

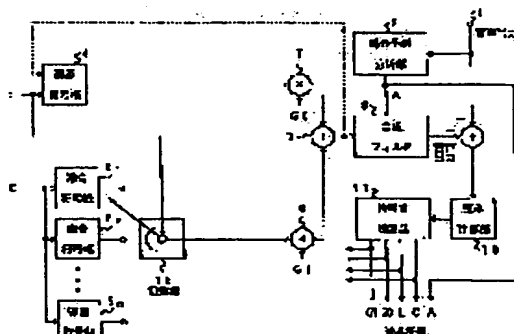
MANO KAZUNORI

(54) CODE EXCITATION LINEAR PREDICTIVE VOICE CODING METHOD AND ITS
DECODING METHOD

(57)Abstract:

PURPOSE: To perform high quality coding with a low bit rate without increasing the number of outgoing bits.

CONSTITUTION: A noise coding book 51-5N is made from a learned voice for each range in which a pitch period of a voice is classified, an input voice is analyzed in linear prediction, a quantization predictive coefficient is set to a coefficient of a synthetic filter 3, segmented with a pitch period from an immediately preceding filter excitation vector in an adaptive coding book 4, and one on the noise coding book 51-5N is selected in accordance with the pitch period. Weighted sum of the noise vector and the segmented adaptive coding vector is made to be an excitation signal of the filter 3 from the noise coding book 51-5N, and the pitch period and the noise vector are



selected so that distortion of a synthesized speech is minimized.

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